TABLE 1.a. ESTIMATED ONE-TIME BURDEN AND COST TO INDUSTRY TO IMPLEMENT REPORTING AND RECORDKEEPING REQUIREMENTS

Burden item	(A) Person-hours per occurrence	(B) Number of occurrences per year	(C) Person-hours per respondent per year (C = A x B)	(D) Respondents per yeara	(E) Technical person-hours per year (E = C x D)	(F) Management person-hours per year (F = E x 0.05)
1. Applications	N/A					
2. Surveys and studies	N/A					
3. Reporting requirements (nonpathological HMIWI)						
A. Read instructions	1	1	1	1	1	0.05
B. Required activities						
--Perf. spec. tests (certif.) for CMS	13c	1	13	1	13	0.65
--Repeat perf. spec. tests (certif.) for CMS	13c	1	13	0.2d	3	0.15
--Development of operating information	160e	1	160	1	160	8.00
C. Create information	Incl. in 3B					
D. Gather existing information	Incl. in 3B					
E. Write report						
--Notification of intent to construct	2	1	2	1	2	0.10
--Notification of anticipated commencement of construction	2	1	2	1	2	0.10
--Notification of actual startup	2	1	2	1	2	0.10
--Notification of type(s) of waste to be combusted	2	1	2	1	4	0.20
--Notification of HMIWI capacity	2	1	2	1	2	0.10
--Notification of initial performance test (PM, CO, dioxins/furans, HCl, Cd, Pb, Hg, stack opacity, fugitive emissions)	2	1	2	1	2	0.10
--Notification of initial CMS demonstration	2	1	2	1	2	0.10

	--Initial report for the site selection analysis	460f	1	460	1	460	23.00
	--Waste reduction plan	160g	1	160	1	160	8.00
	--Report of initial performance test (PM, CO, dioxins/furans, HCl, Cd, Pb, Hg, stack opacity, fugitive emissions)	40h	1	40	1	40	2.00
	--Report of initial CMS demonstration	Incl. in 3B					
4.	Reporting requirements (pathological and cofired combustors)						
	A. Read instructions	N/A					
	B. Required activities	N/A					
	C. Create information	N/A					
	D. Gather existing information	N/A					
	E. Write report						
	--Notification of relative amounts of hospital, medical/infectious, and other waste charged	2	1	2	4	8	0.40
	--Notification of exemption claim	2	1	2	4	8	0.40
5.	Recordkeeping requirements (nonpathological HMIWI)						
	A. Read instructions	Incl. in 3A					
	B. Plan activities	N/A					
	C. Implement activities	N/A					
	D. Develop record system	N/A					
	E. Time to enter information						
	--Documentation produced as a result of siting requirements	Incl. in 3E					
	--Records of operators completing operator training requirements	2	2i	4	1	4	0.20
	--Records of operators that have been qualified as HMIWI operators	2	2i	4	1	4	0.20
	--Records of initial performance test	Incl. in 3E					
	F. Time to train personnel	N/A					
	G. Time for audits	N/A					
AVERAGE ONE-TIME BURDEN AND COST (SALARY) NATIONWIDE--NEXT 3 YEARSj:						877	44

a A total of 1 new source to be equipped with wet/dry scrubbers is projected each year after renewal. An additional 4 sources (pathological and cofired combustors) are also projected each year, but will be considered exempt. Assumes one affected facility per respondent.

b Costs are based on the following hourly rates: technical at $55.34, management at $78.54, and clerical at $35.64. The composite hourly labor rate is $62.83/hr (55.34 + 0.05 x 78.54 + 0.1 x 35.64 = 62.83).

c Person-hours per occurrence are based on the performance specification costs to certify CMS ($500) divided by the composite hourly labor rate.

d Assumes 20 percent of the initial CMS demonstrations must be repeated due to failure of the first CMS demonstration.

e Assumes 160 hrs to develop the operating information.

f Assumes 460 hours to develop the site selection analysis.

g Assumes 160 hours to develop the waste reduction plan.

h Assumes 40 hours to review report of initial performance test.

i Assumes 2 operators per facility. Also assumes there is no operator turnover at the affected facilities.

j The average one-time burden and cost in the 3 years after renewal for the 1 new source projected each year is equal to the person-hours added down each column for technical, management, and clerical and the sum of the cost column. The sums are equal to the one-time burden and cost in the second year after renewal.

k Responses per year is based on multiplying the number of occurances per year by the number of respondents per year.

(G) Clerical person-hours per year (G = E x 0.1)	(H) Cost, $b	(I) Responses (I=B x D)
0.100	63	1
1.300	817	1
0.300	188	0.2
16.000	10,053	1
0.200	126	1
0.200	126	1
0.200	126	1
0.400	251	1
0.200	126	1
0.200	126	1
0.200	126	1

46.000	28,902	1
16.000	10,053	1
4.000	2,513	1
0.800	503	4
0.800	503	4
0.400	251	2
0.400	251	2
88	55,103	25.2k

TABLE 1.b. ESTIMATED RECURRENT BURDEN AND COST TO INDUSTRY TO IMPLEMENT REPORTING AND RECORDKEEPING REQUIREMENTS

Burden item	(A) Person-hours per occurrence	(B) Number of occurrences per year	(C) Person-hours per respondent per year (C = A x B)	(D) Respondents per yeara	(E) Technical person-hours per year (E = C x D)
1. Applications	N/A				
2. Surveys and studies	N/A				
3. Reporting requirements (nonpathological HMIWI)					
A. Read instructions	N/A				
B. Required activities					
--Annual update of operating information	20c	1	20	5d	80
--Review of operating information with each operator with each operator	8e	2f	16	6g	144
C. Create information	Incl. in 3B				
D. Gather existing information	Incl. in 3B				
E. Write report					
--Annual Report					
--CMS operating paramters (parameters established during initial test, hightest maximum and lowest minimum parameters)	26h	1	26	5d	130
--Emissions/parameters exceedances and periods for which data on emissions/ parameters were not obtained	48i	1	48	1dj	48
--Results of performance tests conducted during the year	40k	1	40	5d	160
--Report of no exceedances	24i	1	24	4dj	96
--Semiannual report of emissions/parameter	48i	1l	48	1.80gj	86.4

	exceedances and periods for which data on emissions/parameters were not obtained					
4.	Reporting requirements (nonpathological HMWI)					
	A. Read instructions	N/A				
	B. Plan activities	N/A				
	C. Implement activities	N/A				
	D. Develop record system	N/A				
	E. Time to enter information					
	--Records of startup, shutdown, or malfunction	2	52	78	6g	702
	--Records of persons completing review of operating information	2	2	4	6g	36
	--Records of annual testing of fugitive emissions	Incl. in 3E.				
	--Records of process and control device operating parameters	1.5	52	78	6g	702
	--Records of CMS operation and maintenance	0.2g	272	54.4	6m	489.6
	Records of emissions/parameters exceedances and periods for which data on emissions/parameters were not obtained	1.5	52	78	6g	702
	--Records of annual and any subsequent compliance tests	Incl. In 3E.				
	F. Time to train personnel	40n	1	40	6g	360
	G. Time for audits	N/A				
5.	Recordkeeping requirements (pathological and cofired combustors					
	A. Read instructions	N/A				
	B. Plan activities	N/A				
	C. Implement activities	N/A				
	D. Develop record system	N/A				
	E. Time to enter information					
	--Quarterly records of hospital, medical/ infectious, and other waste charged	2	4	8	4	32

F. Time to train personnel	N/A				
G. Time for audits	N/A				
AVERAGE RECURRENT BURDEN AND COST (SALARY) NATIONWIDE--NEXT 3 YEARSo:					3,768

a A total of 4 existing sources and 1 new source per year (during the next three years are to be equipped with wet/dry scrubbers). An additional 4 sources (path combustors) are also projected each year, but will be considered exempt. Assumes one affected facility per respondent.

b Costs are based on the following hourly rates: technical at $55.34, management at $78.54, and clerical at $35.64. The composite hourly labor rate is $62.83/l

c Assumes 20 hours to update the operating information each year.

d Because this activity will not be performed during the first year, the average annual number of HMIW with recurrent burden in the next 3 years is 5 (4+5+6)/3 for all HMIWI subject to the standards.

e Assumes 8 hours review the operating information with each operator.

f Assumes 2 operators per facility. Also assumes there is no operator turnover at the affected facilities.

g The average annual number of HMIWI with recurrent burden in the 3 years after renewal is 6 ((5+6+7)/3 = 6) for all HMWI subject to the standards.

h Person-hours per occurrence are based on the reporting and recordkeeping costs for CMS ($1,000) divided by the composite hourly rate.

i Assumes 16 and 8 person-hours per report per affected facility per pollutant to report monitoring exceedances and no excess emissions, respectively. Becaus monitoring requirements focus primarily on three pollutants (PM, CO, and HCl), assume three pollutants.

j Assumes 20 percent of respondents report monitoring exceedances and 80 percent report no excess emissions, based on annual number of HMIWI with recurr 3 years after renewal.

k Assumes 40 hours to review report of annual compliance test.

l Because the semiannual report coincides once each year with the annual report and both reports include information on exceedances and periods for which dat the frequency of the semiannual report is shown in the table as only once per year to avoid double-counting.

m Person-hours per occurrence are based on the recordkeeping cost for day-to-day operation and maintenance (O&M) of CMS divided by the composite hourly l days per year. The O&M recordkeeping costs are $1,963 for large HMIWI equipped with wet/dry scrubbers (an average of 4 sources operating 272 d/yr).

n Based on the time per year to train one person to perform the Method 9 and Method 22 opacity tests. The labor requirements to train the personnel were estin

o The average recurrent burden and cost in the 3 years after renewal for the average 2 sources with recurrent burden are equal to the person-hours added down e technical, management, and clerical and the sum of the cost column. The sums are equal to the recurrent burden and cost in the second year after renewal.

p The annual reporting and recordkeeping hour burden is 4541 (1009+4333-801.3). Based on the table 1a person-hours per year (1009=877+44+88) and the tabl per year (4541=3,768+188+377) minus the 15% of responses collected electronically (801.3). See part 13.c. of OMB Form 83I.

q Responses per year is based on multiplying the number of occurances per year by the number of respondents per year.

(F) Management person-hours per year (F = E x 0.05)	(G) Clerical person-hours per year (G = E x 0.1)	(H) Costb $	(I) Responses (I= B x D)
4.00	8.000	5,026	5
7.20	14.400	9,048	0
6.50	13.000	8,168	5
2.40	4.800	3,016	1
8.0	16.000	10,053	5
4.80	9.600	6,032	4
4.32	8.640	5,429	1.8

35.10	70.200	44,107	
1.80	3.600	2,262	12
35.10	70.200	44,107	312
24.48	48.960	30,762	1632
35.10	70.200	44,107	312
18.00	36.000	22,619	6
1.60	3.200	0	16

188	377p	212,117	2323.8q

nological and cofired

/hr (55.34 + 0.05 x 78.54 + 0.1 x 35.64 = 62.83).

3 =5)

se testing and

rent burden in the

ta were not obtained,

labor rate and the operating

mated to be 8 hr/d for 5 d/yr.
each column for

le 1b person-hours

TABLE 2. ANNUAL BURDEN AND COST FOR THE FEDERAL GOVERNMENT TO IMPLEMENT REPORTING AND RECORDKEEPING REQUIREMENTS

Activity	(A) EPA-hours per occurrence	(B) Number of occurrences per year	(C) EPA-hours per facility per year (C = A x B)	(D) Facilities per yeara	(E) Technical person-hours per year (E = C x D)
1. Attend initial performance test	32	1	32	0.08c	2.56
2. Repeat performance test					
A. Retesting preparation	12	1	12	0.2d	2.40
B. Attend retesting	32	1	32	0.02e	0.64
3. Litigation	2,080	1	2,080	0.01f	20.8
4. Excess emissions--enforcement activities	32	1	32	0.01g	0.32
5. Report review					
--Review notification of intent to construct	2	1	2	1	2
--Review notification of anticipated commencement of construction	2	1	2	1	2
--Review notification of actual startup	2	1	2	1	2
--Review notification of type(s) of waste to be combusted	2	1	2	1	2
--Review notification of HMIWI capacity	2	1	2	1	2
--Review notification of initial performance test	8	1	8	1	8
--Review notification of initial CMS demonstration	5	1	5	1	5
--Review notification of relative amounts of hospital, medical/infectious, and other waste charged for pathological and cofired combustors	2	1	2	4	8
--Review notification of exemption claim for pathological and cofired combustors	2	1	2	4	8
--Review study addressing siting requirements	24	1	24	1	24
--Review waste reduction plan	8	1	8	1	8

--Review report of initial performance test	42h	1	42	1	42
--Review report of initial CMS demonstration	64i	1	64	1	64
--Review annual report					
--CMS operating parameters (parameters established during initial test, highest maximum and lowest minimum parameters)	4	1	4	5j	20
--Emissions/parameter exceedances and periods for which data on emissions/ parameters were not obtained	8	1	8	1k	8
--Results of performance tests conducted during the year	18	1	18	5j	90
--Report of no exceedances	2	1	2	4l	8
--Review semiannual report of emissions/parameter exceedances and periods for which data on emissions/parameters were not obtained	8	1	8	1k,m	8
AVERAGE TOTAL BURDEN AND COST (SALARY) NATIONWIDE--NEXT 3 YEARSo:					338
AVERAGE TRAVEL EXPENSESp = [(1 person x 0.11 facilities/yr x 4 d/facility x $50/d) + ($500/round trip x 0.11 round trips/yr)] =					
AVERAGE TOTAL COST = ANNUAL AVERAGE COST + ANNUAL AVERAGE TRAVEL EXPENSES =					

a A total of 1 new source to be equipped with wet/dry scrubbers is projected each year from the date of renewal. An additional 4 sources (pathological and co combustors) are also projected each year, but will be considered exempt. Assumes one affected facility per respondent.

b Costs are based on the following hourly rates: technical at $36.98, management at $49.82, and clerical at $20. The composite hourly labor rate is $41.47/hr (36.98 + 0.05 x 49.82 + 0.1 x 20.00 = 41.47).

c Each year, a total of 1 HMIWI perform an initial performance test. Assume EPA personnel attend 8 percent of these tests.

d Of the 20 percent that are assumed to fail the initial performance test, assume all repeat the performance test.

e Assume 10 percent of retests are attended by EPA personnel.

f Assume 1 percent of the affected facilities will be involved in litigation.

g Assume 10 percent of the affected facilities are required to retest as a result of excess emissions, and that EPA personnel attend 10 percent of these tests

h Assumes 6 person-hours per report per pollutant. For initial tests, there are seven pollutants (PM, CO, CDD/CDF, HCl, metals, stack opacity, and fugitive there are three pollutants (PM, CO, and HCl).

i Assumes 8 person-hours per report per CMS. There are eight CMS included in this rule (temperature, gas flow, charge weight, pH, liquid flow, pressure drop

j Because this activity will not be performed during the first year, the average annual number of HMIWI with recurrent burden in the 3 years after renewal is 5 (

k Assumes 20 percent of the affected facilities with recurrent burden report monitoring exceedances.

l Assumes 80 percent of the affected facilities with recurrent burden report no excess emissions.

m The average annual number of HMIWI with recurrent burden in the 3 years after renewal is 6 ((5 + 6 + 7)/3 = 6) for all HMIWI subject to the standards.

n This is the total burden and cost for EPA in the first year after renewal.

o The annual average burden and cost for all activities in the 3 years after renewal for EPA are equal to the person-hours added down each column for technic and the sum of the cost column. The sums are equal to the annual burden and cost in the second year after renewal.

p Tests attended = 0.08 (initial tests) + 0.02 (repeat tests) + 0.01 (excess emissions enforcement tests) = 0.11 tests.

(F) Management person-hours per year (F = E x 0.05)	(G) Clerical person-hours per year (G = E x 0.1)	(H) Cost, $b
0.13	0.26	106
0.12	0.24	100
0.032	0.06	27
1.0	2.1	863
0.016	0.032	13
0.10	0.20	83
0.10	0.20	83
0.10	0.20	83
0.10	0.20	83
0.10	0.20	83
0.40	0.8	332
0.25	0.5	207
0.4	0.8	332
0.40	0.8	332
1.20	2.4	995
0.40	0.8	332

2.10	4.2	1,742
3.20	6.4	2,654
1.00	2.00	829
0.40	0.80	332
4.50	9.0	3,732
0.40	0.80	332
0.40	0.80	332
17	34	14,006
		77
		14,083

ofired

s.

emissions). For annual tests,

p, carbon flow, and lime flow).

((4 + 5 + 6)/3 = 5).

cal, management, and clerical staff